

In the Claims

Please cancel claims 1-30.

Please add the following new claims 31-44.

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31. (New) A prosthetic hip and reamer assembly, comprising:

a reamer having a cutting head configured to ream a hemispherically-shaped cavity into an acetabulum of a patient; and

an acetabular cup configured to be press fit into said cavity, said acetabular cup including a cup body defining an apex portion, an upper rim and an outer surface extending therebetween,

wherein an imaginary hemisphere defines a great circle lying in a first plane P1,

wherein said cup body is further configured such that when said imaginary hemisphere is superimposed over said cup body, said upper rim lies in a second plane P2 that is spaced apart from said first plane P1 by a distance D,

wherein  $0.5 \text{ millimeters} \leq D \leq 2.0 \text{ millimeters}$ , and

wherein said cup body is further configured such that when said imaginary hemisphere is superimposed over said cup body, said outer surface of said cup body lies coincident with said imaginary hemisphere from said apex portion to said second plane P2.

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32. (New) The assembly of claim 31, wherein D is approximately one (1) millimeter.

33. (New) The assembly of claim 31, wherein:  
said cutting head of said reamer is substantially hemispherically-shaped  
and possesses a first radius,  
said imaginary hemisphere possesses a second radius, and  
said second radius is greater than said first radius.

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34. (New) The assembly of claim 33, wherein said second radius is  
between one-half ( $\frac{1}{2}$ ) and one and one-half ( $1\frac{1}{2}$ ) millimeters greater than said  
first radius.

35. (New) The assembly of claim 33, wherein said second radius is  
approximately two (2) millimeters greater than said first radius.

36. (New) The assembly of claim 31, further comprising a bearing insert,  
wherein:

said bearing insert is configured to be received within said acetabular cup,  
and

said bearing insert is further configured to mate with a head portion of a  
femur.

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37. (New) The assembly of claim 31, wherein said upper rim of said  
acetabular cup lies substantially flush with a surface of said acetabulum after  
said acetabular cup is press fit into said cavity reamed into said acetabulum.

38. (New) A method of securing an acetabular cup to an acetabulum, comprising the steps of:

reaming a hemispherically-shaped cavity into said acetabulum; and

press fitting said acetabular cup into said cavity, wherein (i) said acetabular cup including a cup body defining an apex portion, an upper rim and an outer surface extending therebetween, (ii) an imaginary hemisphere defines a great circle lying in a first plane P1, (iii) said cup body is further configured such that when said imaginary hemisphere is superimposed over said cup body, said upper rim lies in a second plane P2 that is spaced apart from said first plane P1 by a distance D, (iii)  $0.5 \text{ millimeters} \leq D \leq 2.0 \text{ millimeters}$ , and (iv) said cup body is further configured such that when said imaginary hemisphere is superimposed over said cup body, said outer surface of said cup body lies coincident with said imaginary hemisphere from said apex portion to said second plane P2.

39. (New) The method of claim 38, wherein D is approximately one (1) millimeter.

40. (New) The method of claim 38, wherein:

said reaming step includes the step of reaming said hemispherically-shaped cavity into said acetabulum with a reamer having a hemispherically-shaped cutting head that possesses a first radius,

said reaming step further includes the step of reaming said acetabulum such that said cavity possesses said first radius,

said imaginary hemisphere possesses a second radius, and

said second radius is greater than said first radius.

41. (New) The method of claim 40, wherein said second radius is between one-half ( $\frac{1}{2}$ ) and one and one-half ( $1\frac{1}{2}$ ) millimeters greater than said first radius.

93 42. (New) The method of claim 40, wherein said second radius is approximately two (2) millimeters greater than said first radius.

43. (New) The method of claim 40, further comprising the step of positioning a bearing insert into said acetabular cup, wherein said bearing insert is configured to mate with a head portion of a femur.

44. (New) The method of claim 38, wherein said press fitting step includes the step of advancing said acetabular cup into said cavity reamed in said acetabulum until said upper rim is substantially flush with a surface of said acetabulum.